

Arasite™ APA2

1. GENERAL INFORMATION

Arasite™ APA2 is a three-ply composite of high-quality electrical grade polyester film bonded on both sides with aramid insulation paper (APA). This product has excellent electrical insulating properties, heat resistance, mechanical strength and impregnation properties. It is used for slot insulation, interphase insulation, interturn insulation and liner insulation in Class F electric motors and electric appliances.

2. TECHNICAL VALUES

Nominal Thickness			[mm]	0,17	0,19	0,22	0,24
Composition	IEC 60626-2 / 4		[μm]	50/50/50	50/75/50	50/100/50	50/125/50
Thickness Film	IEC 60626-2 / 4		[μm]	50	75	100	125
Composition	IEC 60626-2 / 4		[mil]	2-2-2	2-3-2	2-4-2	2-5-2
Thickness Film	IEC 60626-2 / 4		[mil]	2	3	4	5
Area Weight	IEC 60626-2 / 5		[g/m2]	170	200	230	270
Tensile Strength	MD	IEC 60626-2 / 7	[N/cm]	≥150	≥170	≥190	≥220
	CD	IEC 60626-2 / 7	[N/cm]	≥90	≥105	≥120	≥150
Shrinkage	MD		[%]	1,5	1,5	1,5	1,5
	CD		[%]	1,1	1,1	1,1	1,1
Breakdown Strength	IEC 60626-2 / 10		[kV]	8	11	12	14
Max. Moisture Content	IEC 60626-2 / 12		[%]	1	1	1	1
Temperature Class	IEC 61857		[°C]	155	155	155	155

Nominal Thickness			[mm]	0,31	0,37	0,41	0,47
Composition	IEC 60626-2 / 4		[μm]	50/190/50	50/250/50	50/300/50	50/350/50
Thickness Film	IEC 60626-2 / 4		[μm]	190	250	300	350
Composition	IEC 60626-2 / 4		[mil]	2-7,5-2	2-10-2	2-12-2	2-14-2
Thickness Film	IEC 60626-2 / 4		[mil]	7,5	10	12	14
Area Weight	IEC 60626-2 / 5		[g/m2]	360	450	515	590
Tensile Strength	MD	IEC 60626-2 / 7	[N/cm]	≥270	≥330	≥370	≥400
	CD	IEC 60626-2 / 7	[N/cm]	≥200	≥300	≥330	≥350
Shrinkage	MD		[%]	1,5	1,5	1,5	1,5
	CD		[%]	1,1	1,1	1,1	1,1
Breakdown Strength	IEC 60626-2 / 10		[kV]	19	23	25	28
Max. Moisture Content	IEC 60626-2 / 12		[%]	1	1	1	1
Temperature Class	IEC 61857		[°C]	155	155	155	155

3. STORAGE AND AVAILABILITY

- Shelf life is 18 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- Standard width is 900 mm
- Available from 10 mm width upwards

4. NOTES

All statements, technical information, and recommendations contained in this document are based on tests or experience that we believe are reliable. However, many factors beyond our control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes. Tolerances on thickness and area weight are +/- 15% if not stated differently.

All questions of warranty and liability relating to our products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

Arasite™ is a trademark of MaterialPartner Technische Werkstoffe GmbH.

5. VERSIONING

Rev. 3 dated 16/07/2026